

Technical datasheet

PC abrasion resistant coating (polycarbonate)

Example of application
<ul style="list-style-type: none"> › Machine covers › Acoustic barriers

Advantage	Disadvantages
<ul style="list-style-type: none"> › High abrasion resistance › High surface hardness › Comparing to PC standard: improved weather resistance and chemical resistance, visual improved 	<ul style="list-style-type: none"> › Moisture ingress

Basic information	Specification
Format	Sheets: 3, 4, 5, 6, 8 and 10 mm available in 2 m x 3 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.2	g/cm ³	DIN EN ISO 1183
Moisture ingress	0.35	%	DIN EN ISO 63

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	60	N/mm ²	DIN EN ISO 527
Elongation at break	80	%	DIN EN ISO 527
E-module	2.400	N/mm ²	DIN EN ISO 527
Notch toughness	fracture free	kJ/m ²	DIN 53453
Rockwellhardness	n.sp.	n.sp.	DIN EN ISO 2039
Thickness	6 - 8	µm	

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.2	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.65	K ⁻¹ ·10 ⁻⁴	DIN 53752
	1.3	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	135	°C	
Max. operating temperature, long-term	115	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10 ¹⁶	Ω·cm	DIN IEC 60093
Outer surface coefficient	10 ¹⁴	Ω	ASTM D257
Puncture resistance	35	kV/mm	IEC 60243

Legend
n.sp.= not specified

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